

4. The SIR measurement apparatus according to claim 1, further comprising delay means for delaying the output of said interference wave power detection means,

5. The SIR measurement apparatus according to claim 1, further comprising dispersion calculation means for obtaining dispersion of an output value of said interference wave power detection means,

6. The SIR measurement apparatus according to claim 1, further comprising reset signal control means for

outputting a reset signal to reset said averaging means according to largeness of a variation quantity of interference wave power detected by interference variation quantity detection means.

- 5 7. A mobile station apparatus equipped with an SIR measurement apparatus, said SIR measurement apparatus comprising:

desired wave power detection means for detecting desired wave power from a received signal;

- 10 interference wave power detection means for detecting interference wave power from the received signal;

averaging means for averaging an output of said interference wave power detection means over a plurality of processing units;

- 15 control means for detecting a variation quantity of the interference wave power from the output of said interference wave power detection means to control averaging intervals in said averaging means according to the detected variation quantity; and

- 20 SIR calculation means for obtaining a ratio of an output of said desired wave power detection means to an output of said averaging means.

8. A base station apparatus equipped with an SIR measurement apparatus, said SIR measurement apparatus
25 comprising:

desired wave power detection means for detecting desired wave power from a received signal;

control means for detecting a variation quantity of
the interference wave power from the output of said
interference wave power detection means to control
averaging intervals in said averaging means according to
10 the detected variation quantity; and

SIR calculation means for obtaining a ratio of an output of said desired wave power detection means to an output of said averaging means.

9. An SIR measurement method comprising:

15 a desired wave power detection step for detecting
desired wave power from a received signal;

an interference wave power detection step for
detecting interference wave power from the received signal;

averaging steps for averaging an output at said
20 interference wave power detection step over a plurality
of processing units;

a control step for detecting a variation quantity of the interference wave power from the output at said interference wave power detection step to control averaging intervals at said averaging steps according to the detected variation quantity; and

a step for obtaining a ratio of an output at said

desired wave power detection step to an output at said averaging steps.

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